

Appl. No. 10/570835  
Amdt. dated July 6, 2007  
Reply to Office Action of April 9, 2007

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 5 (currently amended): A storage system for extracorporeal storage of an organ, said storage system comprising:

an organ perfusion chamber; for storing an extracorporeal organ;  
a vitality-preserving fluid circuit for circulating a vitality-preserving fluid into an  
said extracorporeal organ stored in said organ perfusion chamber, said vitality-  
preserving fluid circuit including a dialysate circulation system and a perfusate  
circulation system; wherein said vitality preserving fluid includes a dialysate circuit; and  
a storage fluid that is stored in fills said organ perfusion chamber, wherein said  
storage fluid is a dialysate and wherein said organ perfusion chamber also serves as a  
reservoir for said dialysate, said dialysate being a component of and integrated into said  
dialysate circulation system that is added to said dialysate circuit as needed; and  
a protective sack adapted to receive said organ in said organ perfusion chamber  
and to provide a barrier between said organ and said storage fluid;  
wherein said organ is maintained by said storage fluid in a floating state in said  
organ perfusion chamber.

Claim 6 (previously presented): The system of claim 5 further comprising a temperature control device for controlling temperature of said storage fluid in said organ perfusion chamber.

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Claim 7 (previously presented): The system of claim 6, wherein said temperature control device is a heating mat.

Claim 8 (currently amended): The system of claim 6, said organ perfusion chamber having a wall and wherein the said temperature control device is integrated into said wall. the wall of the organ perfusion chamber.

Claim 9 (currently amended): The system of claim 8, wherein the temperature control device comprises temperature-control loops embedded with a into said wall of said organ perfusion chamber.

Claim 10 (previously presented): The system of claim 5, wherein said organ perfusion chamber is hermetically sealed against fluid and pressure.

Claim 11 (new): The system of claim 5, wherein said protective sack is an impermeable plastic bag.